

ABSTRACT OF THE DISCLOSURE

A digital optical communication device includes an optical reception circuit converting an optical signal received from any external source to an electric signal, a decoding circuit decoding the electric signal resultant from conversion by the optical reception circuit and judging whether or not the decoding is normally completed, a reception light intensity level judgement circuit judging an intensity level of received light based on the electric signal, a coding circuit coding transmission data, and an optical transmission circuit determining a light emission intensity based on result of the judgement by the reception light intensity level judgement circuit and on result of the judgement by the decoding circuit, and converting the transmission data coded by the coding circuit to an optical signal with the light emission intensity. The optical transmission circuit determines the light emission intensity based on the result of judgement by the reception light intensity level judgement circuit and on the result of judgement by the decoding circuit, so that the light emission intensity can appropriately be controlled and the power consumption can be reduced.